				A۱	viation Maintenance I – 1 of 2
Trac	de and Industrial Education	School Year	Student:		Grade:
Course: Aviation Maintenance I			Teacher: Sch	ool:	
Cou	rse Code # 5703	Term:FallSpring	Number of Competencies in Co	ourse: 38	
2 C1	redits		Number of Competencies Mast		
			Percent of Competencies Maste		
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	OARD 1.0: Students will demonstrate leaders			, community, ar	
Learning	g Expectations	Check the appro	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Cultivate positive leadership skills.				
1.2	Participate in Skill USA-VICA as an integral part of clas				
1.3	Assess situations and apply the decision-making process		e.		
1.4	Demonstrate the ability to work cooperatively with other	S.			
	OARD 2.0: Students will trace the growth an trends of the industry.	d development of the aviation mai	ntenance technology industry to gain	insight regardi	ng past, current, and
Learning	g Expectations	Check the appro	priate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Analyze the evolution of the aviation industry.				
2.2	Examine the roles of people in history who helped to sha	pe the aviation industry.			
STANI	OARD 3.0: Students will evaluate career opp	ortunities and career naths within	the aviation maintenance technology	industry	
	g Expectations		priate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Explore the titles, roles, and functions of individuals eng	**			
3.2	Investigate employment and entrepreneurial opportunitie		ness for advancement.	+	
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	OARD 4.0: Students will apply math and bas g Expectations		opriate Mastery or Non-Mastery column	Mastery	Non-Mastery
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4.1	Demonstrate mathematical skills required for the field of Examine and apply basic physic concepts to aviation, inc				
4.2	aircraft structures; and theory of flight.	ruding principles of simple machines, sound,	, mild, and near dynamics, basic aerodynamics,		
STANI	OARD 5.0: Students will safely evaluate basic	c electrical/electronic circuits.		-	
	g Expectations		priate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Examine series, parallel and series-parallel circuits, include	ling the application of Ohm's law.			
5.2	Perform calculations and perform measurements using vo	oltmeters, amp meters, ohmmeters and megge	rs.		
STANI	OARD 6.0: Students will interpret and use dr	rawings symbols, schematic diagra	oms, bluenrints and sketch basic renai	rs for aviation	structures.
	g Expectations		priate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Interpret aviation drawings, blueprints, symbols, and sch	ematic diagrams.			
6.2	Use and create diagrams and drawings for repairs and alt	erations.			

Check the appropriate Mastery or Non-Mastery column

Mastery

Non-Mastery

Learning Expectations

STANDARD 7.0: Student will weigh aircraft and work with fluid lines and fittings.

Fabricate and install rigid and flexible fluid lines and fittings.

Analyze the importance of aircraft weight and balance and calculate and record weighing information.

STANDARD 8.0: Students will analyze aircraft materials use and care and ground operations procedures.

Learning	g Expectations Cl	heck the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
8.1	Examine the use and care of various covering materials, finishes, and wood structures including approved methods and procedures.			
8.2	Analyze ground operation and servicing.			
8.3	Demonstrate proper procedures for aircraft cleaning and corrosion control.			

STANDARD 9.0: Students will analyze Federal Aviation (FFA) Regulations that govern certified Aircraft Technicians and use required maintenance forms, records, and relevant publications.

Learnin	g Expectations Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
9.1	9.1 Interpret Federal Aviation Administration (FAA) regulations affecting aircraft maintenance technicians.		
9.2	Ψ? Access and use aircraft manufacturers' nublications and complete forms and records		

STANDARD 10.0: Students will demonstrate communication skills required in the aviation maintenance industry.

Learning	g Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
10.1	Communicate and comprehend oral and written information typically occurring in the aviation maintenance workplace.			
10.2	Solve problems and make decisions using a logical process.			
10.3	Use teamwork skills to accomplish goals, solve problems, and manage conflict within groups.			

STANDARD 11.0: Students will demonstrate interpersonal and employability skills required in the aviation maintenance industry.

Learning	g Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
11.1	Infer relationships between work ethics and organizational and personal job success.			
11.2	Demonstrate attitudes conducive to workplace success.			
11.3	Maintain a neat and orderly work area.			
11.4	Assess implications of diversity for communities and workplaces.			
11.5	Exhibit positive employability behaviors.			
11.6	Develop individual time management and work sequencing skills.			

STANDARD 12.0: Students will demonstrate automotive technology safety practices, including Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) requirements for an aviation maintenance facility.

Learning Expectations		heck the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
12.1	Determine the safe and correct application for chemicals used in brake systems.			
12.2	Use protective clothing and safety equipment.			
12.3	Use fire protection equipment.			
12.4	Follow OSHA and EPA regulations and manufacturer specifications affecting brake systems technology.			
12.5	Respond to safety communications referring to brake systems.			
12.6	Pass with 100 % accuracy a written examination relating to safety issues.			
12.7	Pass with 100% accuracy a performance examination relating to safety.			
12.8	Maintain a portfolio record of written safety examinations and equipment examination instructor.	ns for which the student has passed an operational checkout by the		

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